

Claims

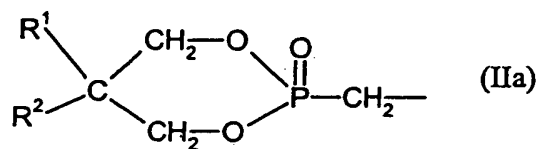
1. Blends which contain

- 5 A) polycarbonate and/or polyestercarbonate,
- B) at least one rubber-elastic graft polymer, selected from the group
consisting of silicone, EP(D)M and acrylate rubbers as graft substrate,
- 10 C) optionally, at least one thermoplastic polymer, selected from the
group consisting of vinyl (co)polymers and polyalkylene
terephthalates and
- D) 0.1 to 30 parts by wt. (with respect to the entire mixture) of a
15 phosphonate amine of the general formula (I)

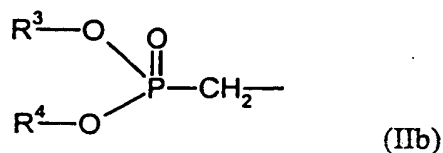


in which

A represents a group of the formula (IIa)



or (IIb)



R¹ and R², independently, represent an unsubstituted or substituted C₁-C₁₀ alkyl group or an unsubstituted or substituted C₆-C₁₀ aryl group,

R³ and R⁴, independently, represent an unsubstituted or substituted C₁-C₁₀ alkyl group or an unsubstituted or substituted C₆-C₁₀ aryl group or

R³ and R⁴ together represent an unsubstituted or substituted C₃-C₁₀ alkylene group,

y has the numerical value 0, 1 or 2 and

B independently, represents hydrogen, an optionally halogenated C₂-C₈ alkyl group, or an unsubstituted or substituted C₆-C₁₀ aryl group.

2. Blends in accordance with claim 1, containing
40 - 99 parts by wt. of component A,
0.5 - 60 parts by wt. of component B,
0 - 45 parts by wt. of component C,
0.1 - 25 parts by wt. of component D, and
0 - 5 parts by wt. of a fluorinated polyolefin.

3. Blends according to claims 1 and 2, containing 2 to 20 parts by wt. of D.
4. Blends according to claims 1 to 3, wherein component B) is selected from one of more graft polymers of
- B.1 5 to 95 wt.% of at least one vinyl monomer on
- B.2 95 to 5 wt.% of one or more graft substrates with glass transition temperatures of <10°C chosen from the group consisting of silicone, acrylate and EP(D)M rubbers.

5. Blends according to claim 4, wherein vinyl monomers B.1 are selected from:

5 B.1.1 50 to 99 parts by wt. of vinyl aromatic compounds and/or ring-substituted vinyl aromatic compounds and/or C₁-C₈ alkyl methacrylates and

B.1.2 1 to 50 parts by wt. of vinyl cyanides, C₁-C₈ alkyl (meth)acrylates and/or derivatives of unsaturated carboxylic acids.

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6. Blends according to claim 5, wherein

B.1.1 is selected from styrene, α -methylstyrene or methyl methacrylate or mixtures of these and

B.1.2 is selected from acrylonitrile, methacrylonitrile, maleic anhydride or methyl methacrylate or mixtures of these.

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7. Blends according to claims 1 to 6, wherein component C.1 consists of vinyl (co)polymers of at least one monomer from the group of vinyl aromatic compounds, vinyl cyanides, C₁-C₈ alkyl (meth)acrylates, unsaturated carboxylic acids and derivatives of unsaturated carboxylic acids.

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8. Blends according to one of claims 1 to 7, containing phosphonate amines selected from the group 5,5,5',5',5",5"-hexamethyl-tris-(1,3,2-dioxaphosphorinane-methane)-amino-2,2',2"-trioxide, 1,3,2-dioxaphosphorinane-2-methanamine, N-butyl-N[(5,5-dimethyl-1,3,2-dioxaphosphorinan-2-yl)-methyl]-5,5-dimethyl-, P,2-dioxide; 1,3,2-dioxaphosphorinane -2-methanamine, N-[(5,5-dimethyl-1,3,2-dioxaphosphorinan-2-yl)-methyl]-5,5-dimethyl-N-phenyl- P,2-dioxide; 1,3,2-dioxaphosphorinane-2-methanamine, N,N-dibutyl-5,5-dimethyl-, 2-oxide,

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1,3,2-dioxaphosphorinane-2-methanimine, N-[(5,5-dimethyl-1,3,2-dioxaphosphorinan-2-yl)-methyl]-N-ethyl-5,5-dimethyl-, P₂-dioxide; 1,3,2-dioxaphosphorinane-2-methanimine, N-butyl-N-[(5,5-dichloromethyl-1,3,2-dioxaphosphorinan-2-yl)-methyl]-5,5-di-chloromethyl-, P₂-dioxide, 1,3,2-dioxaphosphorinane-2-methanimine, N-[(5,5-di-chloromethyl-1,3,2-dioxaphosphorinan-2-yl)-methyl]-5,5-di-chloromethyl-N-phenyl-, P₂-dioxide; 1,3,2-dioxaphosphorinane-2-methanimine, N,N-di-(4-chlorobutyl)-5,5-dimethyl-2-oxide; 1,3,2-dioxaphosphorinane-2-methanimine, N-[(5,5-dimethyl-1,3,2-dioxaphosphorinan-2-yl)-methane]-N-(2-chloroethyl)-5,5-di-(chloromethyl)-, P₂-dioxide.

9. Blends according to the preceding claims, containing at least one additive selected from the group consisting of lubricants and mould release agents, nucleating agents, antistatic agents, stabilisers, colorants and pigments.

10. Blends according to the preceding claims, containing a flame retardant which is different from component D.

11. A process for preparing moulding compositions in accordance with the preceding claims, wherein the components A to E and optionally additives are mixed and melt compounded.

12. Use of the moulding compositions in accordance with claims 1 to 11 to produce moulded articles.

13. Moulded articles or moulded parts, obtainable from moulding compositions in accordance with claims 1 to 11.

14. Housing parts in accordance with claim 13.

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